

# FOLIO

University of Alberta

14 June 1990

## Board of Governors accepts proposals to limit University of Alberta enrollment

The Board of Governors has approved undergraduate enrollment targets for the Faculties of Arts, Science and Education.

At its 1 June meeting, the Board approved the new policy which sets an overall enrollment target of 24,000 full- and part-time undergraduate students, to be achieved by 1994-95.

The 24,000 figure replaces a 20,000 target set by the Board in November 1987; that lower undergraduate figure was to have been achieved by 1997.

"The new target comes in response to growing enrollment pressures in the University, which have produced rising class sizes, reduced contact between students and professors and the beginnings of a serious decline in the quality of education we can offer to our students," President Paul Davenport said.

"Particularly disturbing during the last two years is the fact that a growing number of students are unable to register in courses required for their degrees and courses which they feel are important to their general education."

Students' Union President Suresh Mustapha said "it's something we have to do. The University has a lot of overcrowding problems. We have students who can't get the courses they need to graduate; we've got classrooms where students have to sit in the aisles."

He characterized the enrollment cuts as "modest" and noted that the proposal lacked input from the community at large, information on the impact on colleges, and feedback from high schools, chambers of commerce and other external parties that would be affected by the measure.

"What we did at GFC on Monday

[28 May] provided a channel to change that," he said. "We now have a GFC committee that reports directly to the Planning and Priorities Committee to solicit external feedback and information, so for the life of these quotas as well as for any other matters at the University that affect people off campus, we have a channel built in to get that sort of information fed in here."

Mustapha said there would likely be an impact on the other institutions in the system, but that that impact is "softened by the gradual installment of the quotas." (The University estimates full-time equivalent enrollment will be reduced by about 1.25 percent for four years, beginning in September 1991, for a total reduction of some five percent by 1995.)

At a news conference following the Board meeting, Board Chair John Schlosser said "the physical size of this University will take only 24,000 students. We're now up around 30,000 students, so we're really very overcrowded."

President Davenport said as the student numbers drop—by approximately 375 FTEs a year—the University will lose tuition and about \$800 per FTE of government support. "On the other hand, of course, the resources we require to teach the students will also be dropping, so there's not an immediate effect on the overall deficit. We think in the end the University will be better off than it is today, even given the reduction in tuition revenue.

"I must say, however, that the targets focus on Winter Session

students and it's quite possible we'll see increases in Spring and Summer Session students and off-campus programming that would allow for a partial offset of the decline in Winter Session enrollments," the President said.

In its 1990-91 budget, the University has directed funds towards undergraduate teaching and has improved funding for its Spring and Summer Session courses to accommodate more students outside the peak period of the Winter Session. Moreover, the University will be working with the Faculty of Education to ensure that the new targets do not reduce the number of Albertans who graduate with a first education degree.

Dr Schlosser said he would welcome a royal commission or study on the future of advanced education in Alberta. "I think it's most important that postsecondary education has a sense of direction; what we do here affects the colleges, NAITs and SAITs."

The President said, "The new targets reflect the fact that the University's budget, corrected for inflation, has not kept pace with student numbers. Over the last decade our real operating funding (grant plus tuition) has fallen by 19 percent, while the per student real capital formula grant, which we use for building maintenance and equipment purchases, has fallen by 68 percent. We understand fully the difficult financial problems which the province faces, and the commitment to balance the provincial budget over the next two years. However, limited funding for higher education must eventually mean a limit on the number of students who have access to the system." □



Outgoing Chancellor Tevie Miller has a friendly word last Friday with incoming Chancellor Sandy Mactaggart. Mr Mactaggart is the University's 14th Chancellor.

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- Students from NWT getting helping hand in adjusting to urban lifestyle
- Colossus of modern medicine says pay attention to diet
- Horowitz reminds graduates of responsibility to the less fortunate
- Part II of AUCC's 'The Canadian University in Profile'

## Canadian Circumpolar Institute emerges from Boreal Institute's restructuring

The Board of Governors has approved a plan to restructure the Boreal Institute for Northern Studies; the new institute will be called the Canadian Circumpolar Institute.

"It's an important move for this institute and it reconfirms our direct interest in the research in the North," Dianne Kieren, Associate Vice-President (Academic), told members of the Board 1 June. "This is a restructuring and not just a budgetary kind of an adjustment."

Emphasizing that changes would result in a revitalization, Dr Kieren said the restructuring will result in a strengthening of the former Boreal Institute library, which will be moved to Cameron Library. "The grants structure will be retained," she added.

Other important aspects of the changes will be the hiring of a coordinator and an increasing emphasis on fundraising, she declared. "We want to see northern

research go ahead. The Senate has reinforced that and I think the people on our campus have reinforced that. This gives us the option for revitalization."

President Paul Davenport said following the Board meeting that the restructuring approved by the Board will result in administrative costs savings of some \$200,000. He said the Board gave its strong support for the restructuring. (The former institute's annual budget was about \$635,000.)

Bob James, Vice-President (Research), said the former Boreal library will now be called the Canadian Circumpolar Institute Library and it will be housed in the basement level of Cameron Library; the library is scheduled to be moved 25 July.

He said a number of positions will become redundant, but there are also a number of openings on campus that the holders of these positions will be eligible for. He

said he remains hopeful that all of those seeking employment will be successful. Meanwhile, former Boreal Director Ross Wein will return to his home Faculty, the Faculty of Agriculture and Forestry.

Addressing the issue of the grants and administrative structures, Dr James said a Northern Research Fund will be a component of the Central Research Fund. "The committee members will be appointed by my office in consultation with the Committee for the Canadian Circumpolar Institute," he said. "The institute will have an advisory committee called the University of Alberta Northern Research Committee which will have a number of distinguished northernist researchers on it, appointed by my office in consultation with the northernists."

"That committee will have a coordinator who will chair the committee and act as coordinator for this office and there will be a full-time secretarial staff member," Dr James explained. He added that there will also be up-front funding to hire someone who will play a fundraising role.

Gurston Dacks (Political Science), one of several northern researchers on campus who worked on a committee with senior administration to come up with the recommendations, said last Friday that "when the new structure is in place, the coordinator appointed and information disseminated, people will feel that their concerns were listened to and that we have a new and invigorated mandate for research in the North."

On the issue of administrative cuts, Dr Dacks said one area which will be affected is nonacademic staff in the institute. "This will mean that some services, for example, to visiting researchers, will probably have to be limited. It's impossible to take a significant sum of money out of a function without reducing the level of service to some extent."

"It's a substantial sum of money. I think it produces an exceedingly lean operation and the big challenge will be to maintain the core institute functions," Dr Dacks said. He said there will be three functions of the institute: research grants, library and institutional focus.

"The library and the grants program are well provided for, but

the institutional focus is going to be lean for the next few years and its ultimate strength will depend on the institute's ability to raise external funding and on the willingness of northernists to translate the concerns they expressed into a renewed commitment to this new institute."

Another committee member, Stanley Boutin (Zoology), said "overall I agree with the decisions that were made." In the past, the Boreal Institute was a bit disjointed and somewhat top-heavy with administration, he said.

According to Dr Boutin, three elements had to be maintained: a strong grants program (although he's not keen about it going to the Central Research Fund, he's reasonably confident that the northern committee will exercise control over the grants); the distinct entity status of the library ("It would spell its downfall, if the library was mixed in with the general library"); and space for visiting scholars. (He regards the agreement on the establishment of the new institute as "pretty wishy-washy" on the issue of space once the South Lab disappears, and adds that there is nothing in writing concerning the provision of space. "I'd like something a little more solid.")

Dr Boutin continued: "We've sent out bad vibes by this move and we have to switch that around as quickly as possible." The first step in that process is the hiring of a coordinator. Dr Boutin lauded the cooperation between the committee and the Office of the Vice-President (Research).

Dr Dacks pointed out that the committee brought back the recommendations to northernists on campus for their input and consideration before proceeding.

"I think people took the Boreal for granted; they figured it had been there for years and would continue to be there," Dr Dacks said. "Some people viewed themselves as consumers of the Boreal rather than as members or participants. The events of the last few months compelled them to think in a more focused fashion about the importance of an institutional focus for northern research on campus," he said. "And the success of that focus is measured ultimately by the willingness of northernists to contribute to it." □

## FOLIO

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## Program aims to make transition to city life easier for NWT students

The transition from a remote northern community to Edmonton, one of the nation's largest cities, is not always easy. In fact, many students from the Northwest Territories who attend Edmonton postsecondary education institutions simply can't make that transition and return to their more familiar surroundings without completing their programs of study.

Now, with the financial assistance of Bellanca Developments Ltd, the Government of the NWT (GNWT) and the Medical Services Branch of Health and Welfare Canada, a person affiliated with the University of Alberta's Native Student Services will attempt to increase those students' success rates.

That person's job will be to build a system which will allow NWT students to increase their chances of success, says Reinhild Boehm, Director of the Office of Native Student Services. That will involve recruiting in NWT high schools and adult education centres. Here in the city, the adviser/counsellor will help students maintain contact with the North and provide orientation services for students grappling with the complexities of city living.

"We know, for example, that budgeting is a problem," says

Dr Boehm, so budgeting workshops are planned. Time management is also a problem. However, one of the biggest obstacles to success is loneliness, she points out.

Bellanca President Janice Rennie says the idea for the position was born out of discussions with Rae-Edzo Dene Band Development Corporation President Charlie Charlo, who drew attention to the serious problem NWT students have in adjusting to southern studies.

So, in conjunction with the recent opening of a new high rise development by Bellanca in Yellowknife, the company announced a five-year contribution of \$100,000 (\$20,000 per year), matched by the GNWT and augmented by a \$16,000 annual contribution by the Medical Services Branch.

Rennie said as a responsible corporate citizen in the North, Bellanca looked around for a way to put something back into the community. "We felt it was a worthwhile investment and the idea of youth and education really appealed to us. Our philosophy as a company is that the future of any community is only as bright as the youth of that community."

GNWT Director of the Student

Financial Assistance Program Dan Daniels says, "The most important aspect of the new program is that we hope students who benefit from the program will be ambassadors for postsecondary education and encourage other NWT students to pursue postsecondary education." An alumnus of the U of A who has first-hand experience with the kinds of problems NWT students encounter, Daniels says they don't know whether the program will affect the returnee rates to the NWT, but they hope the program in the long run will result in students having more positive experiences while studying in the city.

Last year, approximately 130 students from the NWT attended postsecondary institutions in Edmonton; approximately 75 of those students were at the U of A. The program is expected to serve both native and non-native students.

Kay Vedic, a liaison officer with the GNWT's Edmonton office, agrees that money and time management are problems for NWT students in the city. "The city distractions are incredible for a student from Coppermine," she says. "And if the program works the way we anticipate, it has a good chance of saving some of our

students," she says, adding that a lot of orientation work remains to be done in the communities before the students ever arrive in Edmonton.

Rennie points out that the program has particular appeal to the University, given that institution's 1988 Senate Task Force Report on the University and the North, a report from which the Office of Native Student Services derives a great deal of inspiration.

The report states: "In providing postsecondary educational services to native people who reside in the North, the most satisfactory mode appears to be to have courses delivered in northern locales. For those disciplines which require attendance at an urban campus, intensive and ongoing student support services are critical to success."

The task force recommended that the University, through Native Student Services, continue to provide the personal and educational support to native students studying on campus, "recognizing that it is a critical factor for successful completion of studies."

Rennie concludes that Bellanca Developments Ltd hopes its involvement will serve as a role model for other companies. □

## Traffic delays unavoidable due to delivery of LRT materials

As early as Monday, 25 June, the contractor for the LRT station on campus will be delivering pre-cast concrete roof support components to the construction site over a two-to three-day period. The hauling route is the same as that used in early May. Trucks will transport the components north on 114 Street, turning eastbound left through the 87 Avenue intersection, then southbound through the 112 Street intersection. The trucks will then back up through the intersection northbound past the Home Economics and Fine Arts Buildings to the construction site.

Folio has been notified that the trucks may have to line up on 112 Street south of 87 Avenue before final delivery within the construction hoarding. Access to

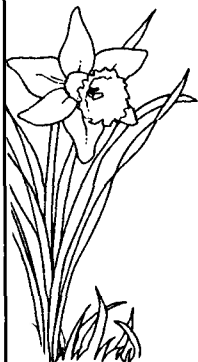
the parking lots off 112 Street will be maintained, but drivers should be prepared for delays. The City of Edmonton advises that a traffic delay of several minutes should be anticipated at the 112 Street and 87 Avenue intersection during each delivery. Traffic controllers will be present to ensure the safety of pedestrians and vehicle operators.

The pre-cast roof support units will be fastened at each end to the vertical support piles currently under construction, forming the main roof structure of the station. It is expected that one further delivery will occur in the near future, at which time notice will be provided.

The University community's cooperation and patience is appreciated. □



**Dr John and Mrs Patricia Schlosser** will be the guests of honor at a garden party on the grounds of University House, **Wednesday, 27 June.**



*All members of the university community are invited to attend the function to salute personally the retiring Chair of the Board of Governors.*

*The garden party will take place from 3:30 to 5:30 pm.*

Please call 492-5660 if you plan to be present.

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## Faculties of Graduate Studies at U of A, U of C want to set the collaborative example for others to follow

Isolated by geography and by a history characterized more by rivalry than cooperation, the Faculties of Graduate Studies at the Universities of Calgary and Alberta now want to deny geography and change those traditional patterns of history.

A recently-signed agreement between the two universities that allows an academic staff member from one university to serve on the supervisory committee of a graduate student at the other university is only the beginning of a new era of cooperation between the two universities, says U of C Graduate Studies Dean David Bercuson.

Here to address the U of A's Faculty of Graduate Studies and Research representatives 25 May, Dean Bercuson told *Folio* that the agreement is a "sign of maturation of the University of Calgary and a sign of a new attitude on the part of the Graduate Faculty of the University of Alberta.

"What is now happening is that the two universities are looking at one another and are seeing substantial institutions which have tremendous resources," says Dr Bercuson. "What we can do now is begin to come together as two separate institutions and cooperate across the board in a lot of different areas, even outside the graduate programs."

In fact, Dr Bercuson foresees the day when an expansion of what would be called "joint programs" would enable graduate students registered at either university to take a large part of the course work at the other university. Each university would give residents credit for time at the other university and students would be able to use either or both universities' laboratory, computer and library facilities.

"You will have a supervisor who may be at the U of C and a cosupervisor at the U of A and in the end the student graduates with a degree from one or the other of the institutions, having drawn on the strengths of both of them.

"When we get to that point—and that point's down the road, but that's what we're looking at—we will be able to offer prospective graduate students in the rest of Canada and the United States a



Deans Chia (left) and Bercuson are hoping their agreement leads to greater cooperation.

hell of a bargain," says Dr Bercuson. "We'll be able to say to them 'come to the U of A or the U of C and do your graduate program here, so that when you buy this package you not only get the U of C, you get the U of A too, and vice versa.'"

Dr Bercuson and Dean Fu-Shiang Chia point out that there are precedents for this kind of cooperation among other institutions on the continent. "In Montreal, in fact, four universities, two anglophone and two

francophone, have a large number of joint programs that they have developed over the last 20 years," Dr Bercuson notes.

Tony Kernahan (Associate Dean of Graduate Studies and Research, U of A) points out that the quality of the education is also going to be better. Dean Chia adds that equipment, resources and expertise that one university doesn't have in a particular area may well be found at the other university. That augmentation can't help but have a positive impact on the quality of education a graduate student would receive.

And given the highly competitive environment universities now find themselves in, both Graduate Faculties are hopeful that this pooling of resources will give the U of C and U of A a competitive edge when it comes to attracting graduate students.

"The biggest job that we have is to get our colleagues to start thinking about cooperation and not competition," Dr Bercuson says. "It's going to take a while, but if we keep taking these steps which we've already started, if we can

provide moral and political leadership, then we can go to departments thinking about new program development right now and try to convince them to buy into this idea. Five or 10 years down the road this will be accepted as normal," Dr Bercuson predicts. □

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## Tevie Miller Involvement Award

To thank Tevie Miller for his dedication to our University, the Students' Union created the Tevie Miller Involvement Award and pledged to match all donations 3:1. Members of Senate have responded generously, giving \$4,685 to date.

University staff wishing to express appreciation to the outgoing Chancellor for his years of service to this institution may send (tax-deductible) donations to:

Tevie Miller Involvement Award  
Senate Office  
150 Athabasca Hall

Please make cheques payable to the University of Alberta.

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## CA (Al) Squibb: 1925 - 1990

CA (Al) Squibb died suddenly of a heart attack, 18 May 1990.

Mr Squibb, who was on special assignment in the Office of the Associate Vice-President (University Relations), was 65.

A native of Montreal, he attended McGill University and worked in the advertising business in his hometown for several years. At the time of his move west in 1971, Mr Squibb held the position of director, administration/services, Foster Advertising Limited. He was responsible for assisting the vice-president (Eastern Canada), planning and administering a new business program, and directing sales promotion and radio and television departments.

From late 1971 to early 1977, Mr Squibb was branch manager, director, and vice-president of the communications firm of Francis, Williams and Johnson Limited. Here, he supervised all projects handled for corporate clients and

exercised the responsibilities of a company director.

In 1977, Mr Squibb was appointed assistant deputy minister in the Province of Alberta Public Affairs Bureau. His energies were directed at policy development for the Department of Government Services, directing staff responsible for all government communications, maintaining liaison with and evaluating advertising agencies and public relations counselling firms in Alberta, and consulting at deputy minister and assistant deputy minister levels with all provincial ministries on communications policy and programming.

His knowledge and professionalism in the field of public relations and communications consulting were retained by one other corporate entity—FH Hayhurst Company Limited. Mr Squibb was vice-president and general manager

of the communications consultants' Edmonton branch from 1979 until November 1982 when he took up the appointment of director of the University of Alberta's Office of Community Relations (now Public Affairs). During his tenure as director, he was instrumental in helping the University relate more effectively to the community it serves.

Mr Squibb was transferred to the Office of the Associate Vice-President (University Relations) in 1988. He consulted with community groups, contributed to various strategic planning sessions and conducted research into the naming of University buildings.

Mr Squibb's wife, Belle, predeceased him in 1987. He leaves one son, Kevin, and his wife, Beryl, of Calgary; one daughter, Karen, of Vancouver; and two grandchildren, Stephanie and Derek. □



## One of the 'giants of modern medicine' visits Cross Cancer Institute

"One can't help but get the impression that all of the general public and, I'm afraid, many in the medical profession, are under the delusion that doctors, hospitals, drugs and high technology have a profound effect on the health of a community," says one of the world's foremost advocates of healthy diets.

"Doctors and hospitals have no effect whatsoever on the health of a community; they have a profound effect on sick people," Denis Burkitt, a Fellow of the Royal Society (Great Britain), told a packed lecture hall at the Cross Cancer Institute 5 June.

"With few exceptions, such as some venereal diseases and possibly leprosy, we haven't found any disease in the world that has ever been reduced in incidence by early diagnosis or by improved treatment—and this of course is certainly true of cancer," says Burkitt, a surgeon who worked in a teaching hospital in East Africa for nearly 20 years and who described a form of cancer which now bears his name (Burkitt's Lymphoma).

"Early diagnosis and improved treatment never has and never will have the slightest influence on the incidence of cancer, yet we tend to put most of our money along that line," the honorary fellow of Trinity College said.

"Nearly all disease, including cancer, is the result of environmental factors," Dr Burkitt said, adding that we are all more or less susceptible to these environmental factors through our genes.

The 79-year-old doctor said, "The most important single observation made in the field of medicine over the last 25 years is that many if not most of the common, chronic diseases filling the beds of industrialized countries are rare or unknown throughout the Third World . . . even in Edmonton before about 1920. And yet they are equally common in black and white Americans today.

"So they've got to be due, not primarily to our genes, but to our lifestyle. And if diseases are due to lifestyle, then they must be preventable, if we can identify the elements of our lifestyle responsible," he said.

Tracing the changes in diet of human beings over time from hunter-gatherers to Western

civilization, Dr Burkitt pointed out that "we're a constipated society because we've taken the fibre out of our diet."

He said colon cancer is the second most common cancer death in Western countries. "According to which cancer registry you look up in Africa, colon cancer is between 20 and 50 times more common in black Americans than in Africans. So, it's got to be almost entirely due to the food we eat, and all the evidence points to fat as being causative and fibre as being protective."

Breast cancer affects one woman in 10 in this country and is eight times more common in black American women than in African women; it's four times as common among Japanese women who live in Hawaii than those who live in

Japan; it's more common in South African women serving as domestic servants with access to food in white households. "So there's a big environmental factor in breast cancer and the same applies to prostate cancer.

"When the conditions of life for any animal population deviate from those to which it has adapted genetically, biological maladjustment is inevitable," he said. "Maladjustment between our current lifestyle and the one in which we evolved has generated the diseases of civilization that are the commonest causes of death and morbidity in Alberta today."

The solution, says the writer, editor and coeditor of six books, is to reverse our eating habits towards a diet to which we are genetically adapted, which would

lower our risk of contracting Western diseases such as cancer, hypertension, coronary heart diseases, diabetes and constipation. And that diet should include more fibre and starch and less fat, sugar and salt.

"I've often said that if a community passes small stools, they have to have large hospitals; if they pass large stools they can manage with small hospitals. And if you in the medical profession here in Alberta can double the size of Alberta stools in the next decade, you'd do more for the health of the community than adding wings on to the hospitals." After the laughter died, Burkitt quoted American poet Ogden Nash: "We're making great progress, but we're heading in the wrong direction."□

## Horowitz tells graduates to remember their debt to society

Former President Myer Horowitz invited graduates on the first day of Spring Convocation to "recognize the debt we owe to the larger community and the responsibility we have to the less fortunate."

Dr Horowitz, who received an honorary Doctor of Laws degree and who gave the Convocation Address, said, "There is too much ignorance, too much poverty, too much sadness, too much injustice, and too much illness in the world, in Canada, in Alberta and in Edmonton."

He informed the audience that the infant mortality rate is twice as high among the poor of our country, and that in the rural north it is five times what it is in southern Canada. "About one million Canadian children are living below the poverty line, and almost half of the 400,000 Canadians who lined up at food banks last week were children. That's a national disgrace.

"And what about the situation in our own city? A recent report estimated that 41,000 children go hungry in Edmonton each day. A health centre about one kilometre from this campus has indicated that many inner-city children are treated for iron deficiencies which result in their being tired and unable to concentrate in school."

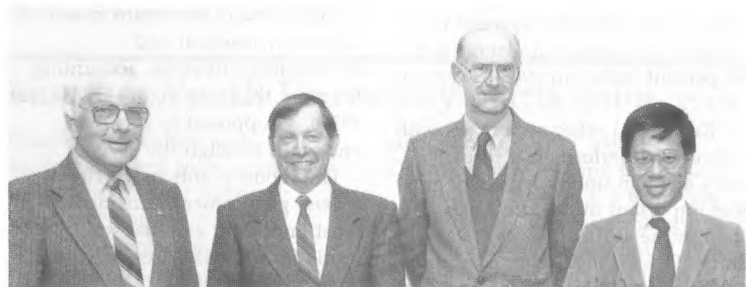
Addressing Faculty of Education and Faculté Saint-Jean students who received their undergraduate degrees 4 June, Dr Horowitz said "as teachers we must have particular concern for the rights of children."

Referring to an *Edmonton Journal* editorial concerning the Convention on the Rights of the Child recently signed by Prime Minister Mulroney, Dr Horowitz said he agreed with the editorial which stated, "The [Convention] was written not just for a 12-year-old Iranian soldier or a malnourished baby in Mozambique, but for every child in Halifax or Montreal or Edmonton who arrives to school in the morning too hungry to

concentrate."

Said Horowitz, "Unfortunately, in the early 1950s I taught too many children who could be described this way, and almost 40 years later I fear that you will too.

"We must be advocates for every child—for the malnourished child and for the handicapped child; for the child growing up in urban slums or in rural poverty, and for the suburban child who may suffer from a different kind of deprivation; for the gifted child and the artistically talented child; for the child adjusting to a new country and acquiring a new language; and for the child who is touched by violence or abuse."□



Pictured with Dean John McDonald (second from right) are (left to right) John McGregor, Hugh Clifford, and Anthony Lau, the 1989-90 recipients of the Faculty of Science Awards for Excellent Teaching. An article (sans photograph) in the 31 May issue of *Folio* referred to Dr Lau (Mathematics) as Andy Lau. His name was inadvertently confused with that of Andy Liu, also of the Department of Mathematics. Again, the award winner is Anthony Lau. *Folio* regrets the error.

## University research effort increasingly on shaky ground, study finds

Compared with other industrialized countries, Canada's university research effort and its overall research and development effort are increasingly shaky, says the Association of Colleges and Universities of Canada's recent publication *Trends: The Canadian University in Profile 1990 edition*.

Measured in terms of the ratio of university sector research and development expenditures to gross domestic product, Canada's university research effort was only marginally higher in 1988 than in 1979 and lower than in the early 1980s.

"In the same period, Denmark, France and the United States increased their ratios by more than one-fifth and Finland by almost two-thirds," says the report. "Italy doubled its ratio. While the Japanese and West German ratios remained relatively stable through this decade, both were already ahead of Canada and both have massive private sector research and development efforts."

According to the report, in 1989-90, total expenditures on research and development in the university sector will reach almost \$2 billion, more than quadruple 1971-72 expenditures. "While this may seem impressive at first glance, the reality is much less so, as the figure is not adjusted for inflation."

In constant dollar terms, 1989-90 expenditures are only 30 percent above the 1971-72 level. In contrast, total gross expenditures on research and development in Canada, in constant dollars, were 90 percent higher in 1988-89 than in 1971-72.

"Relative to other sectors, as both patron and performer of research, the Canadian university sector was less important in the late 1980s than in the 1970s. In every year since 1984-85, the higher education sector assumed less than 10 percent of the cost of Canadian research and development, compared with 14 to 17 percent throughout the 1970s."

In relative terms, federal government research and

development funding declined, from 45 percent of gross research and development expenditures in the early 1970s to 30 percent in the late 1980s. "The business sector, on the other hand, increased its share from 27 percent to 42 percent albeit with help from generous research and development incentives."

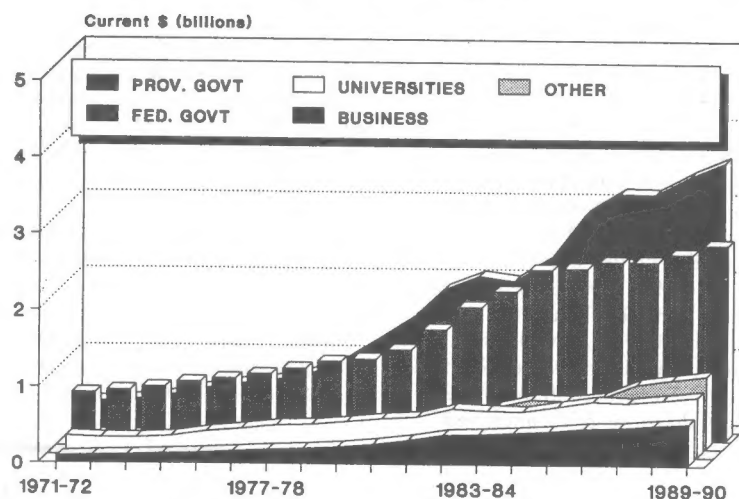
In terms of gross expenditures, in 1971-72 the higher education and business sectors each performed about one-third of total research and development in Canada, while the federal government made up almost another one-third. "By 1989-90 the proportions had shifted radically, with business accounting for more than one-half; the higher education sector, just under one-quarter; and the federal government, one-sixth."

Patterns of funding research and development expenditures also changed within the university sector. During the 1970s and early '80s, universities themselves funded at least 45 and often more than 50 percent of the university sector research and development. However, because of the squeeze on general operating revenues, this proportion fell to about 40 percent in the late 1980s.

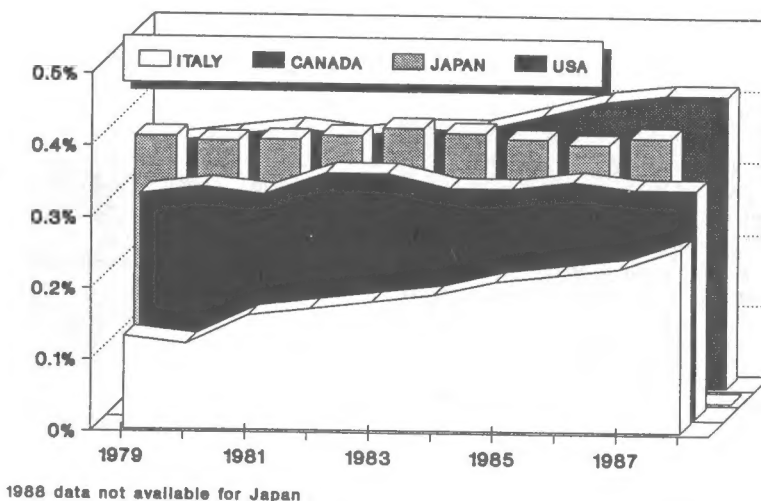
During most of the 1970s, the business sector funded 2 to 3 percent of university research, but that share was increased to 8 percent by 1988-89—though the rate of growth of this funding slowed in the late 1980s. "Provincial governments also became a more important source of university research and development funding, accounting for more than one-eighth in the late 1980s, as opposed to less than one-tenth through the 1970s."

The report points out, "The federal government remained the most important external source of funds for university research and development. Ottawa's contribution made up about 31 percent of these funds in the early 1970s, dropped to 28 percent in the latter part of that decade, but then climbed to 32 percent where it remained for most of the 1980s."

GROSS EXPENDITURES ON R&D BY SOURCE OF FUNDS



UNIVERSITY RESEARCH EXPENDITURES AS PERCENT OF GDP SELECTED OECD COUNTRIES



1988 data not available for Japan

### Opposing views

Two opposing views on the future of university research began to emerge. Some university researchers worried that too many strings are attached to most business sector funding, some provincial funding and a growing share of federal funding. "Historically, university research has often been characterized as more basic and 'curiosity-driven,' or at least less commercial or 'mission-oriented,' than that which

business, and, increasingly, governments are willing to sponsor," the report says.

"On the other hand, after more than a decade of tight money, others welcome new research funding from business and governments, and argue that 'mission-oriented research' involves the universities more directly in meeting the needs of the wider national and international communities." □

## Revenues per full-time equivalent enrollment plummet during decade

Even though total university revenues grew from \$3.2 billion to almost \$7.6 billion between 1977-78 and 1987-88, once inflation is factored in, revenues per full-time equivalent enrollment were actually 10 percent lower in 1987-88 than a decade earlier.

According to the Association of Universities and Colleges of Canada's recent publication *Trends: The Canadian University in Profile 1990 edition*, general operating revenues dropped even more drastically—by almost 18 percent in constant dollars.

"Because most other funds are earmarked for restricted uses, this trend has reduced universities' flexibility in coping with growing enrollment and the many other demands placed on them," the report says.

"Except for gifts, donations and nongovernment grants, all major university revenue sources provided less income (in constant dollars per FTE) in 1987-88 than in 1977-78. Revenue from government sources declined most sharply, more than 14 percent. General operating revenues from government sources fell by almost 20 percent."

In 1987-88, however, all governments combined still managed to provide nearly 71 percent of total university revenues, but this was four percentage points less than a decade earlier.

How did universities respond to this funding situation? Many began to diversify their fundraising efforts

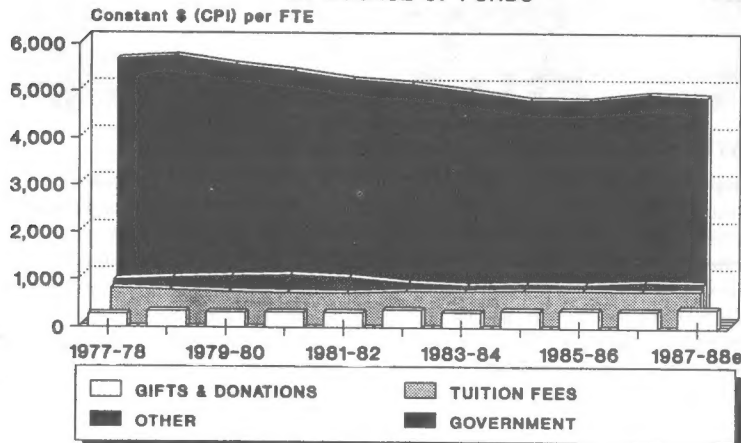
and, as a result, revenues from gifts, donations and nongovernment grants were almost 45 percent higher in 1987-88 than in 1977-78. This revenue rose from 4 percent of total revenues to 6 percent over the 10 years.

Universities also responded by raising tuition fees, except in Quebec where fees have been frozen at 1967-68 levels. (However, late last year, the Quebec Government announced its intention to raise fees.) "By 1987-88, total tuition fee revenues outside Quebec (in constant dollars per FTE) were about 20 percent higher than in 1977-78.

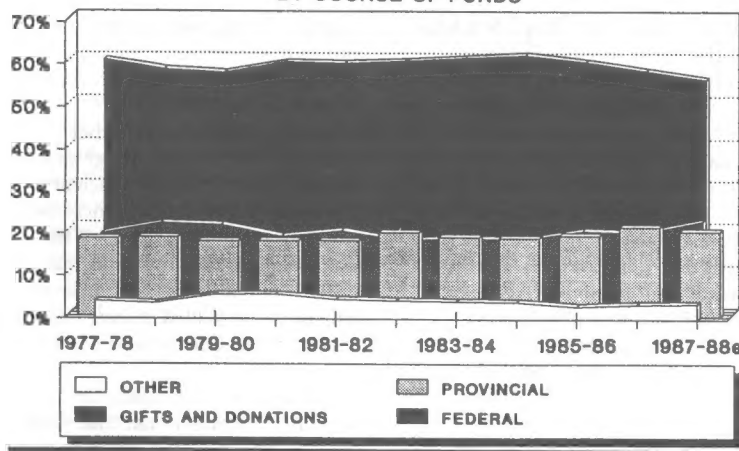
Another significant response to these increasingly tight budgets was for universities to cut general operating expenditures. In 1987-88 general operating expenses accounted for 68 percent of total university expenses, representing a drop of more than five percentage points from 1977-78. "In terms of constant dollars per FTE, this belt tightening meant that universities spent one-sixth less (about \$900 per student) in 1987-88 than they had a decade earlier.

"Within general operating expenses, spending cuts most severely affected physical plant, library, instruction, computing and nonsponsored research. To some observers, these cuts led to a deterioration of the physical face of many universities and raised serious questions about the shape of university education and research in the 1990s," the report states. □

**TOTAL UNIVERSITY INCOME BY SOURCE OF FUNDS**



**SPONSORED RESEARCH INCOME BY SOURCE OF FUNDS**



## Developmental Disabilities Centre studies aging in mentally disabled people

Aging in mentally handicapped people with Down's Syndrome and those without it was the topic of an information session conducted 7 June by the Developmental Disabilities Centre.

Aging in persons with Down's Syndrome is a topic of high interest both for its theoretical value and practical implications for job placements and living arrangements, says JP Das, Director of the Developmental Disabilities Centre and principal investigator in the project. The work undertaken by the centre involves a longitudinal follow-up of the cognitive functions of these people, comparing them with other mentally disabled people and seeking answers to questions such as What functions decline? What adaptive behaviors disappear? and Do the people with Down's Syndrome age faster than others?

Dr Das, addressing supervisors from service agencies, participants

in the project, and parents, guardians, faculty and students, said the preliminary results based on 100 individuals who were tested on a battery of cognitive and behavioral tasks to detect dementia show that until people with Down's Syndrome reach their late forties and early fifties, their decline is not perceptible, compared to their non-Down's counterparts.

"However, subtle declines in the various cognitive functions could be found earlier when the data are analyzed," Dr Das said.

Joining Dr Das in the discussions were Dick Sobsey (Educational Psychology); Komilla Thapa, a postdoctoral fellow from the University of Allahabad, India; Margaret Davison, a psychologist and school teacher who runs the project; and Father Brian Jayawardhana, representing Catholic Social Services. □

## Summer Youth University starts soon

Thirty-nine Faculties and departments will soon receive a contingent of eager learners.

Summer Youth University 1990 opens next month, and 552 junior and senior high school students have registered so far.

"These young people have an exciting opportunity to learn more about U of A disciplines, join debates and discussions, tour labs, visit collections and socialize with teens from all over Alberta and

surrounding areas," says SYU Coordinator Maryanne Budnitsky.

Although Session I, 3 to 13 July, is almost full, there are still spaces in most subjects in Session 2, 16 to 26 July. Classes run from 9 am to noon and 1 to 4 pm, weekdays. The registration fee for nine days of classes is \$234.

Registration forms can be picked up at the SYU office, second floor, SUB, or by calling the Faculty of Extension at 492-5597. □

## NSERC funding responsible for trio of Industrial Research Chairs at U of A

Jan Conradi's recent appointment to the Chair in Fiber Optic Communications Research (*Folio*, 31 May) brings to three the number of NSERC Industrial Research Chairs at the University of Alberta. Dr Conradi joins George Foxcroft (Animal Science) and Francis Yeh (Forest Science) in this distinctive category. (Dr Foxcroft's field is swine reproductive physiology; Dr Yeh is undertaking forest genetics research.)

The Natural Sciences and Engineering Research Council, together with one or several industrial firms, contributes towards the salary of a top researcher, as well as towards infrastructure, equipment and general research expenses. The objectives of Industrial Research Chairs in Canadian Universities are:

- to assist universities in building on existing strengths to achieve the critical mass required for a major research endeavor in scientific and technological fields of interest to industry; and/or
- to assist in the development of research efforts in fields that have not yet been developed in Canadian universities but for which there is an important industrial need.

Arthur May is a marine biologist who understands the needs of researchers. He has been president of NSERC since 1986 but will soon be resigning his post to assume the presidency of Memorial University in Newfoundland. Dr May, who was on campus for the announcement of Dr Conradi's appointment, says 78 Industrial Research Chairs are sponsored by NSERC and private companies. (The program began in 1984 with one Chair.) In fact, since 1984, NSERC has attracted the participation of more than 600 companies in various ventures. In 1988-89, the granting agency directed some \$30 million to Alberta, including \$18 million to the University of Alberta.

A major piece of business for this summer, Dr May says, is the finalization of a five-year (1991-96) plan concerning NSERC's funding scheme. Currently, the funding situation for next year and beyond is uncertain. What is certain is that the purchasing power of NSERC

grants is decreasing due to inflation and to the increase in the number of researchers in the past several years.

Dr May told *Folio* that other priorities are 1) to encourage more women to seek careers in science and technology and 2) to increase graduate student stipends. "The real challenge for Canada in the 1990s," he maintains, "is to have a full supply of skilled researchers. That's why 1 and 2 are so important."

At the news conference for Dr Conradi it was noted that many chairs get funded but suitable candidates aren't always found. Also, most, if not all Chairs, are established only after a spate of discussions. As Ray Fortune, president of Alberta Telecommunications Research Centre put it, the negotiations to bring Dr Conradi to the U of A were "not on the same level as those for the Meech Lake Accord, but close."

Dr Foxcroft holds the NSERC Industrial Research Chair in Swine Reproductive Physiology, a position which is also financed by the Alberta Pork Producers Development Corporation and, in its infancy, by the Advanced Education Endowment and Incentive Fund. Dr Foxcroft's appointment in September 1988 was preceded by a site visit by NSERC officials and a lengthy round of talks.

The Chair was established to create a program of research in reproductive physiology in swine, said program to interact with the activities of the swine industry in Alberta. Dr Foxcroft says the program is in place and his research group (two research associates/postdoctoral fellows, six graduate students, 2.5 trust funded technical staff) is collaborating with R&D staff of Alberta Agriculture, in particular staff at the Alberta Swine Artificial Insemination Centre in Leduc, and with staff of the Agriculture Canada Station at Lacombe.

"NSERC has been tremendous; they've filled a lot of stopgaps in getting the program started," Dr Foxcroft says.

The initial package is for five years; the intention beyond that, he says, is that the position become

part of the regular academic activities of the Faculty of Agriculture and Forestry.

Dr Foxcroft has filed an 18-month report to NSERC and has a three-year review of the program ahead of him. He points out that during the last 18 months of a program the Chair holder can enter the normal competition for NSERC operating grants. With five years of base research funding, Dr Foxcroft isn't eligible to compete in the operating grants program but he can compete for strategic grants, equipment grants, and others. He can also compete in all provincial programs for grant money.

Summer is nearly here, but, he says, "there's no slowdown ahead." Experimentally, summer is the most hectic time because the PhD students on the team are off course work and into the research side.

Dr Foxcroft, who earned BSc and PhD degrees at the University of Nottingham, says there's no program in Britain geared towards creating actual academic positions within departments. Rather, a research program receives soft

## NSERC meeting here in '92

The October meetings of the Council of NSERC are held outside Ottawa. In 1990, Council will meet at the University of Victoria; in 1991, at the University of Western Ontario; and in 1992, at the University of Alberta.

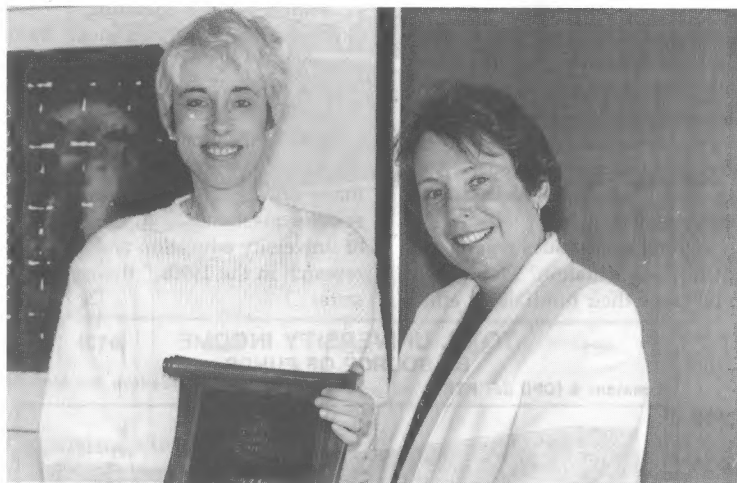
The two major committees of Council are: the Committee on Research Base (it deals with research grants) and the Committee on Scholarships and Fellowships.

Other committees of NSERC are: the Committee on Targeted Research and the Committee on International Relations. In addition, ad hoc committees are struck to address special projects, for example, research in forestry.

The University of Alberta has representation on the Council of NSERC in the person of Mary Spencer (Plant Science).□

money which runs out when the program is concluded.

Besides the research, Dr Foxcroft team-teaches one 300 level course and one 500 level course in swine reproductive physiology. Research and teaching are an 80-20 split, he says.□

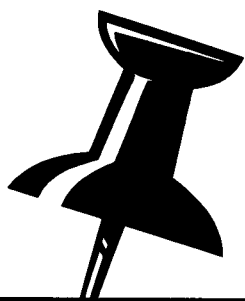


### Arts' top teacher

Rosemary Nielsen (left) accepts the Faculty of Arts Undergraduate Teaching Award from Dean Patricia Clements. There are a number of reasons why Professor Nielsen (Classics) was given the award, not the least of which are her ability to communicate with students, her versatility with classes of all sizes, and her enthusiasm for her subject and concern for the welfare of students. Professor Nielsen, who has been on campus since 1966, teaches Latin and Greek, Greek and Roman Literature, and Women's Studies in Classics. She is currently working with Robert Solomon (English) on a book concerning Horace and his English poet-translators. Five years ago, Professor Nielsen received the Rutherford Award for Excellence in Undergraduate Teaching.



## CURRENTS



### General Faculties Council

GFC's next meeting is scheduled for **Monday, 25 June, at 2 pm** in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 28 May 1990
3. Oral Report from the President
4. Question Period
5. New Members of GFC 1990-91

#### Reports

6. Executive Committee Reports
- 6.1 Summary of Executive Committee Minutes of 8 June
- 6.2 Summary of Executive Committee Minutes of 15 June
7. Report of the Board of Governors of 1 June 1990
8. Reports of the Nominating Committee
- 8.1 Written Report
- 8.2 Oral Report
9. GFC Facilities Development Committee (FDC): Oral Report
10. GFC Academic Development Committee (ADC): Oral Report
11. GFC Planning and Priorities Committee (PPC): Oral Report
12. University Research Policy Committee (URPC): Oral Report

#### Deferred from Previous Meeting

13. GFC Planning and Priorities Committee (PPC): Annual Report 1989
14. Reapportionment of Staff and Student Seats on GFC
15. GFC Writing Competence Committee (WCC): Proposal to Disband the Committee

#### New Business

16. Other Business
- Additional items will be added to the Agenda following the 8 and 15 June Executive Committee meetings.

### Farewell reception for Alan Rennie

A reception will be held to honor Alan Rennie, who is retiring from the University at the end of June from the position of Associate Vice-President (Finance). Since joining the University in 1969, Mr Rennie has held managerial and administrative positions with Physical Plant, later with the Vice-President (Facilities and Services) in 1980 as the Associate Vice-President (Facilities and Services), and finally as Associate Vice-President (Finance), in the Office of the Vice-President (Administration) from 1986.

The reception will be held Thursday, 21 June, from 3 to 5 pm at Lister Hall. Friends and colleagues are invited to attend to bid Mr Rennie farewell.

Those wishing to recognize the occasion are asked to show their support

for Disabled Student Services. Cheques should be made payable to the University of Alberta, and sent to Peter Tait, 3-16 University Hall. Tax receipts will be issued for donations of \$15 and over, or upon request, for donations of a lesser amount.

## EVENTS



### Talks

#### Entomology and Zoology

18 June, 3:30 pm Steve Mihok, Tsetse Research Programme, International Centre of Insect Physiology and Ecology, Nairobi, Kenya, "Tsetse Control, Wildlife Conservation, and African Trypanosomiasis." TBW-1 Tory Building.

#### Joint-Faculties Bioethics Project

22 June, 8 am Medical Grand Rounds, "The Pressures of Cost Containment and the Demands of Patient Care: A Double Bind for Health Care Professionals?" Eric Meslin, bioethicist, Sunnybrook Clinical Ethics Centre, North York, Ontario. Note: This installment of Medical Grand Rounds is open to all health care professionals (nurses, pastoral care workers, physicians), social workers, and lawyers interested in medico-legal issues.

#### Canadian Institute of Ukrainian Studies

26 June, 7:30 pm Dmytro Pavlychko, Deputy, USSR Supreme Soviet and Ukrainian SSR Supreme Soviet, and founding member, Rukh (Kiev), "Five Years of Glasnost." Sponsor: Ukrainian Professional and Business Club. TL-11 Tory Building.

### Physics

3 July, 2 pm RS Crisp, Department of Physics, The University of Western Australia, "Soft X-ray Emission as a Tool for Materials Science." 631 Avadh Bhatia Physics Laboratory.

### Award opportunities

#### Canadian Foundation for the Study of Infant Deaths (Dr Sydney Segal Research Grants)

Applications are invited for research grants funded by the Canadian Foundation for the Study of Infant Deaths. Grants may be awarded to students in any discipline (medical, epidemiological, psychological, biological, sociological, etc) which is concerned with the causes, effects, and/or prevention of Sudden Infant Death Syndrome.

For further information, contact the Office of Student Awards, 252 Athabasca Hall, or the Director, Canadian Foundation for the Study of Infant Deaths, PO Box 190, Station R, Toronto, Ontario M4G 3Z9. Deadline: 30 June 1990.

#### NSERC Special Postgraduate Scholarships for Employed Scientists and Engineers

Deadline: 15 July 1990. For further information, contact the Office of Student Awards, 252 Athabasca Hall.

#### Association for Canadian Studies Intercultural/Interregional Exchange Program

Designed to promote Canadian Studies, this program encourages and facilitates exchanges within the field of Canadian Studies at the postsecondary level. Up to \$2,500 will be awarded to help defray transportation and accommodation costs incurred by exchange participants (maximum five days).

Visitors may take part in activities such as teaching, research, lectures and seminars. All professors, researchers, graduate students and public figures involved in Canadian Studies are eligible to participate.

For further information, contact: The Association for Canadian Studies, PO Box 8888, Station A Room V-5130, Montreal, Quebec H3C 3P8.

### Positions

*The University of Alberta is committed to the principle of equity in employment.*

*In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

### Academic

#### APO, Department of Sociology

Applications are invited for the position of Administrative Professional Officer (Assistant to the Chair) in the Department of Sociology, Faculty of Arts.

This position is responsible to the Department Chair for the planning, establishment and maintenance of an administrative support system to facilitate the teaching and research functions of the department. S/he would be accountable for the preparation and monitoring of budgets and timetabling and would coordinate the support staff and otherwise assist the Chair in all matters conducive to the efficiency and harmony of the department and its relationship with service departments and University administration.

The position calls for someone with intelligence, tact and initiative, capable of working authoritatively with a variety of people. Applicants should have a university degree and/or considerable administrative experience, preferably at this University. Computer familiarity is desirable. Salary is based on experience. The position has 496 Hay points. Current range is \$32,458 to \$48,672 per annum.

Applications, including *curriculum vitae* and the names of three referees, should be forwarded to: Dr RA Silverman, Chair, Department of Sociology, University of Alberta, Edmonton, Alberta T6G 2H4. Deadline: 29 June 1990.

#### APO, Department of Botany

The Department of Botany, in the Faculty of Science, invites applications for the position of Administrative Professional Officer.

Reporting to the Chair, the APO is accountable for the planning, establishment and maintenance of an administrative support system to facilitate the teaching and research function of the department. The incumbent will hold responsibility for the preparation and monitoring of budgets (operating, capital, trust), timetabling and student registration, and will provide assistance to various departmental committees. The incumbent will also analyze and interpret University, Faculty and departmental policies, coordinate the activities of support staff, and otherwise assist the Chair in all matters conducive to the effective operation of the department. Other responsibilities include serving on and minute-taking for committees as designated.

A degree in the Life Sciences is desirable with proven organizational/administrative skills and experience in personnel supervision. The incumbent must be able to work with academic staff, support staff and students. Applicants must have considerable administrative experience in a teaching/research environment, preferably at a university.

Minimum starting salary: \$32,330 per annum. Applications, including a résumé and the names of three referees, should be forwarded to: Dr Keith E Denford, Chair, Department of Botany, University of Alberta, Edmonton, Alberta T6G 2E9.

Deadline: 30 June 1990.

#### Director, Off-campus Research Resources, Department of Animal Science

The Department of Animal Science invites applications for the position of Director of Off-campus Research Resources. The department has an off-campus research resource consisting of seven animal research and teaching facilities for beef and dairy cattle, pigs, sheep and wildlife with 27 permanent, and a similar number of temporary, support staff. Each facility has a supervisor who is responsible for record-keeping, day-to-day management and short-term planning. About 70 scientists and graduate students conduct research in these facilities.

This an academic position reporting directly to the Chair. The Director will provide overall leadership in animal welfare and administration and development of the off-campus research and teaching infrastructure. Accountabilities will include, but not necessarily be limited to: financial and administrative systems and policies; liaison among facilities, and between off-campus and on-campus facilities; management of the common infrastructure; off-campus personnel administration; public relations and extension administration; and coordination of the department's major extension activities.

Applicants should hold a degree in Animal or Veterinary Science and have post-degree training and experience in research and administration. The appointee will have a record of success as a leader, innovator and facilitator, and have excellent personnel management and public relations skills.

The current salary range (under review) is \$33,848 to \$50,768 per annum plus a comprehensive benefits package. A house is available.

Applications will be received until 29 June 1990, and should include a résumé and the names of three referees. They should be sent to: Dr MA Price, Chair, Department of Animal Science, Faculty of Agriculture and Forestry, University of Alberta, Edmonton, Alberta T6G 2P5. Telephone: (403) 492-3235.

### **Treasurer and Risk Manager, Office of the Comptroller**

**Rank and salary:** This Administrative Professional Officer position, with 830 Hay points and a 1989-90 salary range of \$43,250 to \$64,874, reports to the Associate Vice-President and Comptroller.

**Position description:** The Treasurer and Risk Manager is responsible for banking operations, administration of the University's financial assets and liabilities, including borrowing, cash management and investment accounting, revenue management, risk management and insurance programs, accounting for self-administered benefits plans and University related income, tax matters, and major special projects. This position has a staff of 2.5 reporting to it. **Qualifications:** Applicants must possess a university degree and an accounting designation and must have proven administrative abilities and effective communication skills. Familiarity with computer spreadsheet programs is desirable. The incumbent serves on various committees as well as being the designated accountant and trustee for the University's self-administered academic and nonacademic benefits plans and the University's pension plan for related organizations. Good knowledge of various income tax filing requirements for Canadian and US governments would also be an asset. **Applications:** Applications should be forwarded to: Louis F Jamernik, Associate Vice-President and Comptroller, 347 Administration Building, University of Alberta, Edmonton, Alberta T6G 2M7. Deadline for receipt of applications is 25 June 1990.

### **Assistant Registrar, Records Office of the Registrar**

This Administrative Professional Officer position reports to the Associate Registrar and Director of Records. The incumbent is accountable for the management of the student registration, record-keeping and certification processes, the grade auditing and verification process, records production, and the Unclassified Student program. Specific responsibilities include scheduling and coordination of production activities for student registration and student records, implementation of new registration and records policies and procedures, development of appropriate training programs, and management of one of three admissions-records units.

Applicants must possess proven administrative abilities and effective communication skills. Experience with course and student records policy and procedures is essential. Applicants should hold a university degree but recognition will be given to experience. Salary range is \$31,941 to \$47,911 per annum (currently under review).

Applications, including a résumé and the names of three references, should be forwarded to: Mr HJ King, Associate Registrar and Director of Records, Office of the Registrar, 201 Administration Building, University of Alberta, Edmonton, Alberta T6G 2M7.

Application deadline: 22 June 1990.

### **Support Staff**

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 8 June. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.*

*Positions available as of 8 June 1990.*

#### **The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.**

Accounts Clerk, Grade 4, Housing and Food Services, (\$1,602-\$1,973)  
Clerk Typist, Grade 4, Career and Placement Services, (\$1,602-\$1,973)  
Clerk Typist, Grade 4, Personnel Services and Staff Relations, (\$1,602-\$1,973)  
Clerk Steno, Grade 4, Educational Administration, (\$1,602-\$1,973)  
Clerk Typist, Grade 5, Student Awards, (\$1,717-\$2,166)  
Clerk Typist, Grade 5, International Centre, (\$1,745-\$2,166)  
Clerk Steno, Grade 5, Athletics, (\$1,749-\$2,166)  
Clerk Steno (term to 5 October 1990), Grade 5, Education - Field Experiences, (\$1,749-\$2,166)  
Clerk Steno (Recurring term) Grade 5, Drama, (\$1,749-\$2,166)  
Clerk Steno, Grade 5, Romance Languages, (\$1,749-\$2,166)  
Clerk Steno, Grade 5, Secondary Education, (\$1,749-\$2,166)  
Secretary, Grade 5, Genetics, (\$1,749-\$2,166)  
Administrative Clerk, Grade 5, Plant Science, (\$1,749-\$2,166)  
Administrative Clerk, Grade 6, Faculty of Extension (Business Programs), (\$1,914-\$2,386)  
Secretary, Grade 6, Physical Education and Sport Studies, (\$1,914-\$2,386)  
Secretary, Grade 6, Personnel Services and Staff Relations, (\$1,914-\$2,386)  
Departmental/Executive Secretary, Grade 6, Drama, (\$1,914-\$2,386)  
Office Services Senior Clerk, Grade 6, Special Sessions, (\$1,914-\$2,386)  
Bacteriology Technologist, Grade 6, Microbiology, (\$1,914-\$2,386)  
Building Services Worker (37.5 hours/week), Grade 6, Physical Plant, (\$2,051-\$2,256)  
Instrument Technician, Grade 7, Chemical Engineering, (\$2,084-\$2,612)  
Graphics Technician, Grade 8, Office of Public Affairs, (\$2,251-\$2,839)  
Programmer Analyst, Grade 9, Office of the Registrar, (\$2,436-\$3,089)

#### **The following positions retain salary rates in accordance with the previous classification system and pay plan.**

Technician I/II (Trust), Medicine, (\$1,705-\$2,488)  
Technician I/II (Trust/term), Surgery (Urology), (\$1,705-\$2,488)  
Technologist I/II (Trust), Medicine, (\$2,100-\$2,960)  
Technologist II (Trust), Medicine, (\$2,283-\$2,960)

## **Advertisements**

### **Accommodations available**

Victoria Properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max Ports West, Victoria, BC.

Visiting Toronto? Bed and breakfast in our restored home, minutes to the University of Toronto and downtown. Rates from \$45. Ashleigh Heritage Home, (416) 535-4000.

The Weathervane bed and breakfast - Character home near Government House, four minutes to town. Daily/weekly rates. Nonsmoking. John and Sue Cabeldu, 1633 Rockland Avenue, Victoria, BC V8S 1W6. Call (604) 592-0493.

Lease - New, custom designed, energy efficient, three bedroom, furnished house. Riverdale, on bike route. Close to downtown, University, schools. \$1,200. September 1990. 429-4277.

Rent - Southwest, four bedroom, fully furnished house. Family room, large patio, fireplace. One year lease. 437-2975 after 6 pm.

Rent - Superb, three bedroom, furnished (includes piano) townhouse, near University. September-December. \$800 includes heat, plug-in parking space. 492-1279, 438-1068.

Rent - Clean, bright, furnished, two bedroom basement suite near campus. Available July-August. \$460 (\$350 single), includes laundry. Nonsmoking. 436-0301. Ideal for visiting professors.

Sale - Rosedale, the downtown choice with river valley parkland environment; beautiful, executive 2 1/2 storey featuring a magnificent master bedroom, jacuzzi, berber carpet, fireplace. Asking \$191,900. Joy Murray, Canada Trust, 468-2100.

Sale - Garneau Mews, \$125,900; immaculate, two bedroom, two bath unit. Parquet flooring, spacious living room, fireplace. Owner has purchased another home; must sell! Ronn Bence, 438-1575, Re/Max Real Estate.

Sale - Delightful, two level, cedar condo, 1,340', close to campus. Bright, cheerful, two large bedrooms, two baths, city view, six appliances. \$114,900. Ronn Bence, Re/Max Real Estate, 438-1575.

Rent - Sabbatical house, furnished, \$900. Groat Estates. Available 1 August 1990. Professional couple, visiting scholars preferred. Can show to local contacts. 492-5444, 452-0553.

Sale - University area, three bedroom, nanny suite, hardwood floors, double garage. 11432 71 Avenue. 481-0502.

Share - Nice house near University. June-July. Joe/Jennifer, 439-1302.

Rent - Six month lease, highrise furnished condo, available 15 August; river valley view, one bedroom and den. 424-2945 for appointment.

Rent - Riverbend, 1,400', three bedroom bungalow. Three bathrooms, new kitchen, family room, two fireplaces, developed basement, five appliances, double garage. Near schools. One-two year lease, \$1,200/month. Alice Mah, 438-7000.

Rent - Large, furnished, highrise condo. One bedroom. Available July. Fantastic view. Nine-twelve month lease. Underground parking. Near transportation. No pets, adult building. \$950/month. 424-2863.

Rent - Sydney, Australia, two bedroom, partially furnished house. 18 July

1990-15 January 1991. Near public transportation, schools, shops, universities, hospitals. \$300/week. Dr RE Leech, 452-1311 residence, 471-7659 business.

Rent - Three bedroom, unfurnished bungalow with built-up basement including bedroom and kitchen facilities, all appliances. Five minute walk to University and hospitals. Available 1 August. Call 437-6738 after 6 pm.

Rent - University area house, two bedrooms, five appliances. \$600/month. Available immediately. 435-2617 after 6 pm.

Sublet - Spacious, bright, two bedroom apartment. Fully furnished. 1 July-1 February. Near Bonnie Doon. \$410/month. Messages, 468-5049.

Wanted - Roommate to share two bedroom apartment for July and August. Located on Saskatchewan Drive. Beautiful view. Mature student preferred. \$340/month. Call Suzi, 433-2908.

Sale - Windsor Park north. Large five bedroom and den, older, custom-built home on 1 1/2 lots. Swimming pool, mature trees, close to everything. By owner, no agents. Phone 433-4739.

Rent - Lakeside house, Victoria. 16 July-7 August. \$650/week. Furnished, five kilometres to town. Wharf with canoe. (604) 479-8879.

Sale - Belgravia, prime location, 2,200', remodelled kitchen. Developed basement. Won't last! Call Peggy Smith, Spencer Realty, 434-8600.

Sale - By owner, 96 St George's Crescent, Edmonton. Two storey, four bedrooms, three bathrooms, finished basement, detached double garage. By appointment only. 452-8224. No agents.

Rent - Belgravia, three bedroom family home. 1 August. \$1,050/month. 435-8119.

Sale - Parkallen, clean, upgraded home. Super south yard. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

Sale - Rowland Road view property. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

Sale - Windsor Park, 1,500' bungalow. Immediate possession. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

Sale - Holyrood, three bedroom bungalow. Hardwood floors. Quick University access. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

Sale - Windsor Park, two storey, four bedrooms, four baths, two fireplaces. Only 18 years old. Super University location. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

Rent - North Windsor Park, 1,500' bungalow. Three bedrooms, double attached garage. Call 479-0816.

Sale - Immaculate home, 11158 77 Avenue. Must be seen. Asking \$126,000. 428-3841, 433-3163.

Sale - Malmo bungalow faces park area. Fully developed basement. New dusty rose carpet. Extremely well maintained. Asking \$139,900. Maggie Woytkiw, Re/Max Real Estate, 438-1575.

Sale - Beautiful Yellowbird Gardens townhouse backs onto a greenbelt. Includes two fireplaces and two bay windows. Tastefully decorated in muted tones. Great mortgage. Call Maggie Woytkiw, Re/Max Real Estate, 438-1575.

Sale - Garneau, classic, two storey, hardwood floors, three bedrooms, three bathrooms, 1,200', fireplace, recent landscaping, south backyard. Three minute walk to University. Price reduced, \$133,000. 10925 86 Avenue. 433-3300.

Rent - Garneau, three minute walk to University. Beautiful, large, three bedroom house. Complete, five appliances. Available for summer, 15 June- 31 August. \$700 plus utilities. 433-3300.

Sale - Artist designed, ravine, river valley, three bedroom home. 2,300'. Bright, open plan. Walnut floors, solarium, study, ancient spruce trees. Five minute walk to LRT, bikeways. \$225,000. 423-1850.

Rent - Executive home, Parkview, quiet ravine, fully furnished, 2 1/2 bedrooms, studio-study, two fireplaces, double garage. Near downtown, University. Minimum eight month lease, September 1990-April 1991. \$2,000/month. 484-6736.

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Mature Christian couple with infant require a sabbatical home for one year starting July 1990. Call Ken or Edith collect anytime, (403) 556-6313.

Need furnished three bedroom home, for family of four, while on sabbatical in Edmonton. 1 July 1990 to 1 August 1991. Call Diane, 1-532-9480.

We are looking for somewhere to live while building. Professional couple seek sabbatical property for one-two years, from summer 1990. 433-9602.

Want to rent two bedroom apartment or house by 1 August. New staff member; married with one infant, 492-3242.

Experienced housesitting couple with references seek accommodation starting summer 1990. Phone 437-5065.

Mature, responsible, nonsmoking, female, adult student will housesit your home. Excellent references available. Call 688-3749 evenings (collect).

Want to rent/caretake two bedroom house starting September 1990. Medical student, married, with one child. Local references available. Please contact J Hoffman, Box 4944, Arcata, California 95521.

Norwegian professional to rent two bedroom house, furnished. Southwest

Edmonton. One year from September. Ian Stirling, 435-7349, Dennis Andriashek, 435-7370.

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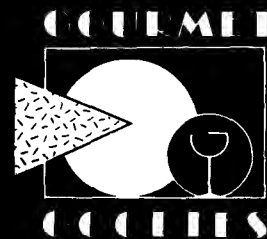
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